Cubic spline fit $S_0(x) = 1.00 + 4.50x + 3.0x^2 + 0.5x^3$ 1.0 - $S_1(x) = 0.0 + 1.5x + 0.00x^2 + -0.50x^3$ $S_2(x) = 0.0 + 1.5x + 0.00x^2 + -0.50x^3$ $S_3(x) = -1.00 + 4.50x + -3.00x^2 + 0.50x^3$ 0.5 $y = \sin(\frac{2x}{\pi})$ Data points 0.0 -0.5 -1.0-1.50.5 2.0 -2.0 -1.00.0 1.0 1.5 -1.5-0.5X